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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/667,113	09/18/2003	Gabriele Barlocchi	854063.552D1	2816		
500 SEED INTEL	7590 03/26/200 LECTUAL PROPERTY	EXAM	EXAMINER			
701 FIFTH AVE SUITE 5400 SEATTLE, WA 98104			ERDEM	ERDEM, FAZLI		
			ART UNIT	PAPER NUMBER		
,		2826				
			MAIL DATE	DELIVERY MODE		
			03/26/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Advisory Action Before the Filing of an Appeal Brief

Application No.		Applicant(s)		
	10/667,113	BARLOCCHI ET AL.		
	Examiner	Art Unit		
	FAZLI ERDEM	2826		

FAZLI EF	RDEM	2826					
The MAILING DATE of this communication appears on the	e cover sheet with the o	orrespondence add	ress				
THE REPLY FILED 11 March 2008 FAILS TO PLACE THIS APPLICATION	ON IN CONDITION FOR	ALLOWANCE.					
1. So The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:							
<ul> <li>a) The period for reply expiresmonths from the mailing date of the final rejection.</li> <li>b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. It no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.</li> </ul>							
Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY C MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).	CHECK BOX (b) WHEN THE	FIRST REPLY WAS FIL	ED WITHIN TWO				
Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the have been filled is the date for purposes of determining the period of extension and under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened st set forth in (b) above, if checked. Any reply received by the Office later than three imay reduce any earned patient term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	the corresponding amount of tatutory period for reply origin	of the fee. The appropria nally set in the final Offic	ate extension fee e action; or (2) as				
2. The Notice of Appeal was filed on A brief in compliance with 37 CFR.41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR.41.37(a)), or any extension thereof (37 CFR.41.37(a)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR.41.37(a).							
AMENDMENTS							
<ol> <li>The proposed amendment(s) flied after a final rejection, but prior to the date of filing a brief, will not be entered because         <ul> <li>(a) They raise new issues that would require further consideration and/or search (see NOTE below);</li> <li>(b) They raise the issue of new matter (see NOTE below);</li> </ul> </li> </ol>							
(c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or							
(d) They present additional claims without canceling a correspond	ding number of finally reje	ected claims.					
NOTE: (See 37 CFR 1.116 and 41.33(a)).			TOL 004)				
<ol> <li>The amendments are not in compliance with 37 CFR 1.121. See att</li> <li>Applicant's reply has overcome the following rejection(s):</li> </ol>	tached Notice of Non-Col	mpliant Amendment (i	OL-324).				
Newly proposed or amended claim(s) would be allowable if s non-allowable claim(s).	submitted in a separate, t	imely filed amendmer	t canceling the				
	7. \( \subseteq \) For purposes of appeal, the proposed amendment(s): a) \( \subseteq \) will not be entered, or b) \( \subseteq \) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.						
Claim(s) allowed:							
Claim(s) objected to:							
Claim(s) withdrawn from consideration:  AFFIDAVIT OR OTHER EVIDENCE							
The affidavit or other evidence filed after a final action, but before or because applicant failed to provide a showing of good and sufficient was not earlier presented. See 37 CFR 1.116(e).							
The affidavit or other evidence filed after the date of filing a Notice of entered because the affidavit or other evidence failed to overcome showing a good and sufficient reasons why it is necessary and was	all rejections under appea	l and/or appellant fails	to provide a				
10. The affidavit or other evidence is entered. An explanation of the star REQUEST FOR RECONSIDERATION/OTHER	atus of the claims after er	ntry is below or attache	ed.				
11.  The request for reconsideration has been considered but does NO See Continuation Sheet.	T place the application in	condition for allowand	ce because:				
12. Note the attached Information <i>Disclosure Statement</i> (s). (PTO/SB/013. Other:	08) Paper No(s)						
	Γhomas L Dickey/ rimary Examiner, Art U	nit 2826					

Continuation of 11, does NOT place the application in condition for allowance because:

Applicants assert, "one of ordinary skill would not be motivated to stop the process of Sparks et al. in order to add the missing elements from different structures using different processes." However, Applicants point to no evi-dence in the record to pupper this assertion. Applicants assert, "in order to create a single monocrystalline substrate in Sparks et al., one would have to re-move the highly N-doped layers (see Figures 10a, 10b, and 10c)." However, Applicants spoint to no evidence in the record to support this assertion. Applicants assert, "in that case, however, the resulting structure would have a small area." However, Applicants opint to no evidence in the

record to support this assertion.

Applicants argue, "In contrast, the present claimed structure has no limitation resulting from the use of the forma-tion of channels and diaphragms in a substrate that is monocrystalline in nature, allowing the channels and dia-phragms to be formed of any desired dimension." However, each of Applicants' claims recities "a structure for weight [CMPRISING..." [emphasis added]. The tablishment instruction are more recitive and the properties of the formation and the properties of the formation and the care that certain limitations are not recited in the present claims cannot be construed to prohibit "the use of the formation of channels and diaphragms in a substrate."

Applicants assert, "Another approach would be to bond more substrates together, although the end result would not be a monocrystalline substrate." However, Applicants point to no evidence in the record to support this assertion.

Applicants assert, "it is improper to use a structure disclosed in an intermediate step in combination with other references to achieve the claimed combination." However, Applicants cite no section of the MPEP, no rule, no stat-ute, and no caselaw in support of this assertion. Applicants argue, "One of skill in the art would not look to the combination of the two Sparks references and the MacDonald patent or the combination of Sparks et al. and Mirza et al. to achieve the claimed monocrystalline struc-ture... There is no teaching, suggestion, or discussion in Sparks et al. that the intermediate structure shown in Fig-ures 6, 7, and 10c was intended to be a final product as modified by Sparks '121 and MacDonald. Nowhere in Sparks et al. '069 is there any teaching or suggestion that the intermediate structure shown in Figures 6, 7, and 10c could or should be modified except as shown in this single reference. A review of both the Sparks '121 and MacDonald sec-ondary references finds absolutely no teaching or suggestion in these references for taking the small feature singled out in these references by the Examiner and applying it to any other process, much less to the Sparks et al. process to achieve the claimed structure." However, a suggestion, teaching, or motivation to combine the relevant prior art teachings does not have to be found explicitly in the prior art, as "the teaching, motivation, or suggestion may be im-plicit from the prior art as a whole, rather than expressly stated in the references.... The test for an implicit showing is what the combined teachings, knowledge of one of ordinary skill in the art, and the nature of the problem to be solved as a whole would have suggested to those of ordinary skill in the art." Alza Corp. v. Mylan Laboratories Inc., 80 USPQ2d 1001, 1006 (Fed. Cir. 2006), citing In re Kahn, 441 F.3d 977, 987-988, 78 USPQ2d 1329, 1340 (Fed. Cir. 2006) (which, in its turn, quotes In re Kotzab, 217 F.3d 1365, 1370, 55 USPQ2d 1313,1318 (Fed. Cir. 2000)). See also DyStar Textilfarben GmbH & Co. Deutschland KG v. C.H. Patrick Co., 80 USPQ2d 1641 (Fed. Cir. 2006) and Old Town Canoe Co. v. Confluence Holdings Corp., 78 USPQ2d 1705 (Fed. Cir. 2006). It is therefore improper to suggest, as applicant does, that if there is "absolutely no teaching or suggestion in these references." there must therefore, as a matter of law, be no "suggestion, teaching, or motivation to combine the relevant prior art teachings." Alza, 80 USPQ2d at 1003.

Applicants argue, "The Examiner cites column 5, lines 35-40 and column 2, lines 35-50 of Sparks et al. '069 and column 6, lines 15-25 of Sparks 121, describing that the substrate need to be 'a suitable substrate,' as an inherent 'hint' that describeng that the substrate is somehow desirable' However, as discussed above, the teaching, motivation, or suggestion may be implicit (i.e., may result from inherent 'hints') from the prior art as a whole, rather than expressly stated in the references. Alza, 80 USPQ2d at 1006; Kahn, 441 F.3d at 987-988; Kotzab, 217 F.3d at 1370.

Applicants assert, "one would have to remove the N+ areas in order to achieve such a substrate, which is clearly not suggested or expected by Sparks et al. '069 much less the two secondary references' However, Applicants point to no evidence in the record to support this

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to replace the polysilicon membrane layer as laught by Sparks et al. with an epitaxial membrane layer as laught by Sparks and replace the substrate with monotilibriosingle crystal substrate as taught by MacDonaid et al. in order to have a sensor struc-ture with a better compatibility between the substrate/epitaxial layer and the membrane layer since an ecitaxial membrane layer since on ecitaxial membrane layer since an ecitaxial membrane layer since compatible with an ecitaxial layer.